# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 05/28/2021 09:02 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 04/05/2021 10:33 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 12757 | Expiration Date: | 06/30/2022 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 123898 | -1 | 2.11 | 123700 | 2.08 |
| Blue | F | SSC | 125000 | 125068 | 0 | 4.08 | 125229 | 4.00 |
| Blue | E | FITC | 14400 | 14090 | -3 | 2.76 | 325 | 14.89 |
| Blue | D | PE | 24713 | 24495 | -1 | 2.28 | 560 | 10.51 |
| Blue | B | PerCP-Cy5-5 | 31796 | 30943 | -3 | 3.60 | 1026 | 14.35 |
| Blue | A | PE-Cy7 | 21240 | 20992 | -2 | 5.42 | 562 | 28.45 |
| Red | C | APC | 41319 | 41047 | -1 | 3.21 | 1716 | 11.19 |
| Red | A | APC-Cy7 | 21019 | 20447 | -3 | 3.58 | 765 | 11.62 |
| Violet | B | V450 | 7305 | 7055 | -4 | 3.88 | 433 | 12.78 |
| Violet | A | V500 | 28652 | 27479 | -5 | 3.39 | 688 | 10.11 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 23179 | 2.03 | 561 | -8 | N/A | N/A | Pass |
| Blue | F | SSC | 58100 | 2.45 | 515 | 3 | N/A | N/A | Pass |
| Blue | E | FITC | 59 | 52.95 | 489 | -2 | 0.0478 | 101 | Pass |
| Blue | D | PE | 117 | 35.73 | 487 | 0 | 0.4533 | 308 | Pass |
| Blue | B | PerCP-Cy5-5 | 190 | 34.30 | 582 | -2 | 0.0205 | 23 | Pass |
| Blue | A | PE-Cy7 | 113 | 64.86 | 629 | -1 | 0.0229 | 0 | Pass |
| Red | C | APC | 396 | 22.84 | 574 | 1 | 0.0293 | 124 | Pass |
| Red | A | APC-Cy7 | 171 | 26.96 | 544 | -1 | 0.0064 | 891 | Pass |
| Violet | B | V450 | 60 | 62.43 | 453 | -3 | 0.0533 | 1932 | Pass |
| Violet | A | V500 | 99 | 35.07 | 466 | -4 | 0.0245 | 859 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Input Device: | Carousel | Date: | 05/28/2021 09:02 AM |
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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.97 - 71.95 | N/A | N/A | -31.71 | -31.59 | 1.07 |
| Blue | 20.35 | 16.27 - 24.41 | 1.28 | 0.99 - 1.49 | 0.00 | 0.00 | 1.42 |
| Red | 20.89 | 15.99 - 23.99 | N/A | N/A | 30.02 | 30.23 | 1.20 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.75

## Threshold

Threshold (FSC): 10303

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments